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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/225,388	01/05/1999	DAVID W SMITH	2000.002500	2528
75	90 08/15/2002			
TERRY D MORGAN WILLIAMS MORGAN & AMERSON 7676 HILLMONT SUITE 250			EXAMINER	
			NGUYEN, TOAN D	
HOUSTON, TX 77040			ART UNIT	PAPER NUMBER
·			2665	
			DATE MAILED: 08/15/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary Description Descr		Application No.	Applicant(s)			
Examiner		09/225 388				
Toan D Nguyen Toan D Nguyen Toan D Nguyen The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edealors of term may be available under the provisions of 37 CFR 1.38(a). In no event, however, may a reply be timely filed If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days will be considered timely. If a proved to communication is days the statulatory minimum of thirty (30) days will be considered timely. If a proved color is a constant of the foreign priority under 35 U.S.C. § 119(a) (d) or (f). If a proved color is a constant of the priority documents have been received in Application No. If a period for reply specified and period for reply specified and period for the priority documents have been received in this National Sta	Office Action Summary					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.138(a). In no event, however, may a reply be timely filed after SX (6) MCNT15 from the malling date of this communication. **PIND period for reply is specified above, the maching date of this communication. **Find period for reply is period above, the maching will stapply and will period for the pile in period above, the maching will supply and will great SX (6) MCNT15 for the malling date of this communication. **Find period palant term adjustment. See 37 CFR 1.724(b). **Status** 1)						
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	14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3, 5-6, 8-9, 23-25, 27-28 and 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Joshi et al. (U.S. Patent 5,133,062).

For claims 1, 9, 23 and 31, Joshi et al. disclose ram buffer controller for providing simulated first-in-first-out (FIFO) buffers in a random access memory comprising:

receiving a set of data signals from an external data source (figure 1, col. 8 lines 29-34);

detecting a size of said received set of data signals (col. 26 lines 45-51);

decoding said received set of data signals; (figure 1, col. 8 lines 1-3);

extracting a destination address from said set of data signals (col. 23 lines 12-19);

comparing said destination address extracted from said data signals to a known data value (col. 11 lines 29-32);

determining whether said received data signals should be received by a host circuitry based upon said comparison of said destination address extracted from said data signals to a known data value (col. 11 lines 32-35);

generating at least one status signal alerting said host circuitry of said determination

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that said received data signals should be received by said host circuitry (col. 11 line 43 to col. 12 line 9); and

waking up said host circuitry upon a determination that said received set of data is addressed to said host circuitry (col. 11 line 43 to col. 12 line 9).

For claims 2 and 24, Joshi et al. disclose set of data signal received is data packet that is in a serial data format, over a network line (col. 7 lines 61-62).

For claims 3 and 25, Joshi et al. disclose step of detecting a size of said received set of data signal and decoding said received set of data signals, includes:

converting said serial data packet into a parallel data format (col. 10 lines 2-4);

extracting a word clock from said received data packet (col. 20 lines 31-50);

incrementing a member held by said counter, said word clock generating a word count (col. 11 lines 11-18);

inputting said converted parallel format data into a plurality of comparators (figure 5B, col. 21 lines 12-49);

using said word count to address data stored in a memory circuitry (col. 24 lines 63-65); and

inputting a set of data signals from said memory circuitry into an appropriate comparator (col. 21 lines 13-30).

For claims 5 and 27, Joshi et al. disclose method of comparing said destination address to a known data value further comprises:

performing a comparison function upon said converted, parallel set of data signals, and said set of data from said memory circuitry (col. 11 lines 29-35);

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generating a digital comparator status signal in response of said performance of comparator function; and clocking in said digital comparator data signal into a register (col. 11 lines 29-35).

For claims 6 and 28, Joshi et al. disclose determining whether said received data signals should be received by a host circuitry further comprises latching all output of said plurality of comparators into a digital logic circuitry (figure 5B).

For claim 8 and 30, Joshi et al. disclose performing an OR function upon all said latched output of said comparator (figure 2).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Joshi et al. (U.S. Patent 5,133,062) in view of Milhaupt et al. (U.S. Patent 5,822,550).

For claim 10, Joshi et al. disclose ram buffer controller for providing simulated first-infirst-out (FIFO) buffers in a random access memory, comprising:

a data formatter (figure 1, col. 7 lines 60-62);

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a host circuitry interface capable of transmitting and receiving data from a host circuitry (figure 2, col. 11 lines 49-54);

a memory circuitry (figure 1, col. 8 line 47);

a plurality of comparators (figure 5B);

a digital logic circuitry (figure 4, col. 15 line 23).

However, Joshi et al. do not disclose: a clock divider; a mask circuitry; a counter; a plurality of status registers and a plurality of clocked registers.

In an analogous art, Milhaupt et al. disclose:

a clock divider (figure 24, col. 30 lines 23-24);

a mask circuitry (figure 24, col. 30 line 25);

a counter (figure 24, col. 30 line 26);

a plurality of status registers (figure 25, col. 33 lines 14-21)

a plurality of clocked registers (figure 24, col. 30 lines 23-27).

One skilled of the art would have recognized circuitry components to use teaching of Milhaupt et al. in the system of Joshi et al. Therefore it would have been obvious to one of ordinary skill in the art at the time invention, to use the circuitry components as taught by Milhaupt et al. in Joshi et al.'s with the motivation being to provide the improvements in circuits, integrated circuit devices, computer system of all types (col. 2 lines 8-9).

For claim 11, Joshi et al. disclose formatter comprises of a serial to parallel converter and a data end detector that are capable of converting a serial stream of data into parallel data words and detecting an end of a data stream (col. 10 lines 2-4).

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For claim 12, Milhaupt et al. disclose clock divider is capable of incrementing a count held by said counter (col. 30 lines 33-35).

For claims 13 and 14, Joshi et al. disclose memory circuitry comprises of a memory element and a memory data access logic ((figure 1, col. 8 lines 45-52).

For claims 15 and 22, Joshi et al. disclose memory data access logic is coupled with said host interface such that data can be sent to and retrieved from said memory elements (figure 2, col. 11 lines 49-54).

For claims 16-18 and 20-21, Joshi et al. disclose comparators are coupled with said data formatter such that said comparators receive parallel formatted data from said data formatter (figure 2, col. 11 lines 29-35).

For claim 19, Milhaupt et al. disclose mask circuitry is capable of preventing a registering of said comparator output into said clocked registers (figure 27, col. 36 lines 56-65).

Allowable Subject Matter

5. Claims 4,7, 26 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:00AM-4:30PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 703-308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

TN.

ALPUS H. HSU PRIMARY EXAMINER

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